

Mazen O Hasna

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

173
papers

4,200
citations

25
h-index

62
g-index

217
ext. papers

5,329
ext. citations

5.3
avg, IF

6.07
L-index

#	Paper	IF	Citations
173	Performance and User Association Optimization for UAV Relay-Assisted mm-Wave Massive MIMO Systems. <i>IEEE Access</i> , 2022 , 10, 49611-49624	3.5	0
172	Exploiting User Diversity in OTFS Transmission for Beyond 5G Wireless Systems. <i>IEEE Wireless Communications Letters</i> , 2022 , 1-1	5.9	
171	Performance of THz Communications over Cascaded RISs: A Practical Solution to the Over-determined Formulation. <i>IEEE Communications Letters</i> , 2021 , 1-1	3.8	2
170	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 1-1	3.7	1
169	A Secrecy Study of UAV Based Networks With Fountain Codes and FD Jamming. <i>IEEE Communications Letters</i> , 2021 , 25, 1796-1800	3.8	5
168	A Novel RIS-Assisted Modulation Scheme. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1359-1363	5.9	3
167	Power Budgeting of LEO Satellites: An Electrical Power System Design for 5G Missions. <i>IEEE Access</i> , 2021 , 9, 113258-113269	3.5	3
166	A Novel Downlink IM-NOMA Scheme. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 235-244	6.7	4
165	Amount of Secrecy Loss: A Novel Metric for Physical Layer Security Analysis. <i>IEEE Communications Letters</i> , 2020 , 24, 1626-1630	3.8	3
164	Full-Duplex Amplify-and-Forward Relaying Under I/Q Imbalance. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 7966-7970	6.8	6
163	Full-Duplex Jamming and Interception Analysis of UAV-Based Intrusion Links. <i>IEEE Communications Letters</i> , 2020 , 24, 1105-1109	3.8	2
162	On the Performance of RIS-Assisted Dual-Hop UAV Communication Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 10385-10390	6.8	92
161	Secrecy Performance Analysis of RIS-Aided Wireless Communication Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 12296-12300	6.8	77
160	Secrecy Outage Performance of Ground-to-Air Communications With Multiple Aerial Eavesdroppers and Its Deep Learning Evaluation. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1351-1355	5.9	9
159	Secrecy Performance Analysis of UAV-Assisted Relaying Communication Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 1122-1126	6.8	14
158	Self-Energized UAV-Assisted Scheme for Cooperative Wireless Relay Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 578-592	6.8	33
157	Smart and Secure Wireless Communications via Reflecting Intelligent Surfaces: A Short Survey. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 1442-1456	6.7	29

156	Secrecy Outage Analysis Over Random Beamforming Transmission With User Scheduling: Collusion vs. Exclusion. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1295-1299	3.2	
155	A Downlink Index-Modulation Based Nonorthogonal Multiple Access Scheme 2020 ,		1
154	Coverage, Probability of SNR Gain, and DOR Analysis of RIS-Aided Communication Systems. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1268-1272	5.9	51
153	Modeling of CubeSat Orientation Scenario and Solar Cells for Internet of Space Provision 2019 ,		3
152	Self-energized Full-Duplex UAV-assisted Cooperative Communication Systems 2019 ,		5
151	Energy Harvesting Schemes for UAV based Communications 2019 ,		4
150	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 499-505	3.7	19
149	Bidirectional Optical Spatial Modulation for Mobile Users: Toward a Practical Design for LiFi Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 2069-2086	14.2	22
148	On Network Flow Maximization via Multihop Backhauling and UAVs: An Integer Programming Approach 2019 ,		2
147	A Novel Energy Harvesting Scheme for Mixed FSO-RF Relaying Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 8259-8263	6.8	18
146	A Comparative Secrecy Study of Flying and Ground Eavesdropping in UAV Based Communication Systems 2019 ,		1
145	Mode selection schemes for D2D enabled unmanned aerial vehicle-based wireless networks. <i>IET Communications</i> , 2019 , 13, 1397-1404	1.3	1
144	On the Performance of Tactical Communication Interception Using Military Full Duplex Radios 2019 ,		7
143	Physical layer secrecy performance of multiple antennas transmission with partial legitimate user CSI. <i>IET Communications</i> , 2019 , 13, 2285-2295	1.3	2
142	Optimal Group Formation in Dense Wi-Fi Direct Networks for Content Distribution. <i>IEEE Access</i> , 2019 , 7, 161231-161245	3.5	5
141	An Efficient Algorithm for Dense Network Flow Maximization with Multihop Backhauling and NFPPs 2019 ,		1
140	On the Achievable Secrecy Diversity of Cooperative Networks With Untrusted Relays. <i>IEEE Transactions on Communications</i> , 2018 , 66, 39-53	6.9	7
139	A Distance-Based Mode Selection Scheme for D2D-Enabled Networks With Mobility. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 4326-4340	9.6	30

138	Precoding-Aided Spatial Modulation for the Wiretap Channel with Relay Selection and Cooperative Jamming. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-11	1.9	2
137	Physical Layer Security Analysis of UAV Based Communication Networks 2018 ,		6
136	3-D Placement Schemes of Multiple UAVs in NFP-based Wireless Networks 2018 ,		2
135	Discrete Input Signaling for Secure MISO VLC Systems with Randomly Located Eavesdroppers 2018 ,		2
134	Latency Analysis of UAV based Communication Networks 2018 ,		4
133	Maximizing Dense Network Flow through Wireless Multihop Backhauling using UAVs 2018 ,		5
132	Physical Layer Security for TAS/MRC Systems With and Without Co-Channel Interference Over α - μ Fading Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 12421-12426	6.8	32
131	Outage Performance of UAV-Assisted Relaying Systems With RF Energy Harvesting. <i>IEEE Communications Letters</i> , 2018 , 22, 2471-2474	3.8	42
130	Classification for Imperfect EEG Epileptic Seizure in IoT applications: A Comparative Study 2018 ,		6
129	Average Secrecy Outage Rate and Average Secrecy Outage Duration of Wireless Communication Systems With Diversity Over Nakagami-m Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 3822-3833	9.6	12
128	A Minorization/Maximization Algorithm for Maximizing the Secrecy Rate of the MIMOME Wiretap Channel. <i>IEEE Communications Letters</i> , 2017 , 21, 520-523	3.8	10
127	Modeling and Performance Analysis of 3-D Heterogeneous Networks With Interference Management. <i>IEEE Communications Letters</i> , 2017 , 21, 1787-1790	3.8	13
126	Unified Performance Analysis for Multiuser Mixed α - μ and M -Distribution Dual-Hop RF/FSO Systems. <i>IEEE Transactions on Communications</i> , 2017 , 1-1	6.9	31
125	. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 4151-4165	9.6	51
124	The Role of Engineering Design in Technological and 21st Century Competencies Capacity Building: Comparative Case Study in the Middle East, Asia, and Europe. <i>Sustainability</i> , 2017 , 9, 520	3.6	3
123	Optimization of base stations density for hybrid energy based 3-D wireless networks 2017 ,		2
122	Performance analysis of secure AF relay networks using cooperative jamming under outdated CSI. <i>IET Communications</i> , 2017 , 11, 2199-2205	1.3	7
121	Association of networked flying platforms with small cells for network centric 5G+ C-RAN 2017 ,		16

120	A Distributed Approach for Networked Flying Platform Association with Small Cells in 5G+ Networks 2017 ,		24
119	Literature Review of iKBE Competencies and Systemic Modelling 2017 , 9-34		
118	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 1477-1491	6.8	7
117	Modelling and performance analysis of 3-D heterogeneous cellular networks 2016 ,		13
116	Interference management schemes for multi-user cooperative wireless networks. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 1135-1147	1.9	
115	Proactive Spectrum Sharing Incentive for Physical Layer Security Enhancement Using Outdated CSI. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6273-6283	9.6	11
114	Location privacy preservation in secure crowdsourcing-based cooperative spectrum sensing. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2016 , 2016,	3.2	11
113	An Insight into the Future of Engineering Education, Recommendations for Implementations, and Conclusions 2016 , 441-446		
112	Purpose of the Book and Editorial Perspectives 2016 , 3-10		
111	Modeling and Performance Analysis of D2D Communications with Interference Management in 3-D HetNets 2016 ,		6
110	2016 ,		1
109	Joint optimization of throughput and delay over PPP interfered relay networks 2016 ,		4
108	Power control and RB allocation in cloud radio access networks 2016 ,		1
107	Area spectral efficiency of infrastructure relay enhanced cellular systems. <i>IET Communications</i> , 2016 , 10, 2480-2487	1.3	
106	Novel cooperative policy for cognitive radio networks: Stability region and delay analysis 2016 ,		3
105	Performance analysis of full-duplex multiuser decode-and-forward relay networks with interference management 2016 ,		2
104	A Collaboration Incentive Exploiting the Primary-Secondary Systems Cross Interference for PHY Security Enhancement. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 1346-1358	7.5	7
103	Energy-efficient based on cluster selection and trust management in cooperative spectrum sensing 2016 ,		1

102	RB allocation based on genetic algorithm in cloud radio access networks 2016 ,		3
101	Power control and RB allocation for LTE uplink 2016 ,		1
100	Novel selective OFDM-based cooperative techniques for multi-hop systems. <i>Physical Communication</i> , 2015 , 15, 1-15	2.2	7
99	. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 2182-2195	14.2	111
98	Interference avoidance scheme for wireless multi-user multi-relay networks 2015 ,		1
97	Optimal power consumption based on new power spectral efficiency metric for wireless cellular networks 2015 ,		1
96	Modelling, analysis and performance improvement of an SRU access request queue in multi-channel V2I communications. <i>Pervasive and Mobile Computing</i> , 2015 , 21, 92-102	3.5	2
95	Performance of Mixed RF/FSO With Variable Gain over Generalized Atmospheric Turbulence Channels. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 1913-1924	14.2	64
94	Joint Optimization of Area Spectral Efficiency and Delay Over PPP Interfered Ad-Hoc Networks. <i>IEEE Communications Letters</i> , 2015 , 19, 1682-1685	3.8	2
93	. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 2072-2081	9.6	8
92	Centralized-decentralized RB allocation based on genetic algorithm and coordination over X2 interface in LTE uplink 2015 ,		1
91	Proactive Spectrum Sharing Incentive for Physical Layer Security Enhancement 2015 ,		5
90	Effective area spectral efficiency for wireless communication networks with interference management. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2015 , 2015,	3.2	2
89	Performance Enhancement of Cognitive Relay Networks Using Regression Functions 2015 ,		1
88	Performance analysis of cooperative communication system with feedback delay and channel estimation error 2015 ,		2
87	Performance Analysis of Amplify-and-Forward Hybrid Satellite-Terrestrial Networks With Cochannel Interference. <i>IEEE Transactions on Communications</i> , 2015 , 63, 5052-5061	6.9	53
86	The Impact of Authentic Complex Engineering Design Experience for K-12 Students on 21st Century Attributes and Perceptions Towards STEM Fields (Evaluation, Strand 3) 2015 , 26.1539.1		
85	Stability and Delay Analysis for Cooperative Relaying with Multi-access Transmission. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 123-134	0.2	1

84	Generalized Area Spectral Efficiency: An Effective Performance Metric for Green Wireless Communications. <i>IEEE Transactions on Communications</i> , 2014 , 62, 747-757	6.9	26
83	Outage Performance of Cooperative Systems Under IQ Imbalance. <i>IEEE Transactions on Communications</i> , 2014 , 62, 1480-1489	6.9	17
82	Modeling and Analysis of an Infrastructure Service Request Queue in Multichannel V2I Communications. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 1155-1167	6.1	20
81	Improved relay selection for decode-and-forward cooperative wireless networks under secrecy rate maximization 2014 ,		1
80	Relay Assignment in Multiple Source-Destination Cooperative Networks With Limited Feedback. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5741-5751	9.6	5
79	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 2224-2235	6.8	12
78	Contribution of Shell Eco-Marathon engineering design experience to soft skills development: A qualitative analysis in the Asian context 2014 ,		3
77	Hybrid underlay/overlay cognitive radio system with hierarchical modulation in the presence of channel estimation error 2014 ,		5
76	Analysis of heterogeneous cellular networks interference with biased cell association using Poisson cluster processes 2014 ,		3
75	2014 ,		7
74	Cognitive relay-sharing by using hierarchical modulation under interference constraints 2014 ,		4
73	Modeling and analysis of HetNet interference using Poisson Cluster Processes 2014 ,		5
72	Asymptotic BER analysis of FSO with multiple receive apertures over M -distributed turbulence channels with pointing errors. <i>Optics Express</i> , 2014 , 22, 18238-45	3.3	12
71	Adaptive Network Coding for Spectrum Sharing Systems. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 1-1	9.6	6
70	Performance analysis of selective cooperation in amplify-and-forward relay networks over identical Nakagami-mchannels. <i>Wireless Communications and Mobile Computing</i> , 2013 , 13, 790-797	1.9	
69	Antenna subset selection at multi-antenna relay with adaptive modulation. <i>Wireless Communications and Mobile Computing</i> , 2013 , 13, 897-907	1.9	
68	On Hierarchical Network Coding Versus Opportunistic User Selection for Two-Way Relay Channels with Asymmetric Data Rates. <i>IEEE Transactions on Communications</i> , 2013 , 61, 2900-2910	6.9	10
67	Adaptive network coding over cognitive relay networks 2013 ,		2

66	2013,		4
65	Performance analysis of relay selection schemes in underlay cognitive networks with imperfect channel state information 2013,		2
64	Systemic framework of competencies of 21st century technical and engineering human resource: A development case for a knowledge based Economy in Qatar 2013,		3
63	From global to local: Investigation of necessary engineering skills for KBE transformation in Qatar in the context of global engineering attributes 2013,		1
62	. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 938-947	9.6	10
61	Priority-Based Zero-Forcing in Spectrum Sharing Cognitive Systems. <i>IEEE Communications Letters</i> , 2013 , 17, 313-316	3.8	4
60	Interference management schemes with general order statistics and interference constraint for multi-user cooperative wireless networks 2013,		4
59	Area spectral efficiency of underlay cognitive radio transmission over rayleigh fading channels 2013		3
58	Novel cooperative communication schemes with interference management for multi-user wireless networks 2013,		10
57	Outage performance of OFDM-based relaying systems under IQ imbalance 2013,		3
56	Performance Analysis of OFDMA Based Wireless Cooperative Networks with Interference Management 2013,		8
55	Performance analysis of relay selection schemes in OFDM-based underlay cognitive networks 2013,		1
54	Sub-channels selection schemes with interference management for underlay cognitive networks 2013,		5
53	Skills of engineers in knowledge based economies: A comprehensive literature review, and model development 2013,		14
52	Multi-resampling Doppler compensation in cooperative underwater OFDM systems 2013,		2
51	Relay selection in underlay cognitive networks with fixed transmission power nodes. <i>Transactions on Emerging Telecommunications Technologies</i> , 2013 , 24, 734-747	1.9	9
50	On Ergodic Capacity of Wireless Transmission Subject to Poisson Distributed Interferers over Rayleigh Fading Channels 2013,		1
49	Generalized area spectral efficiency: An effective performance metric for green wireless communications 2013,		5

48	Joint Optimal Threshold-Based Relaying and ML Detection in Cooperative Networks. <i>IEEE Communications Letters</i> , 2012 , 16, 773-776	3.8	6
47	Performance Analysis of Relay Assignment Schemes for Cooperative Networks with Multiple Source-Destination Pairs. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 166-177	9.6	22
46	A Diversity Compression and Combining Technique Based on Channel Shortening for Cooperative Networks. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 659-667	9.6	6
45	Performances analysis of SEC based transmit diversity systems with MRC receivers 2012 ,		2
44	Reactive relay selection in underlay cognitive networks with fixed gain relays 2012 ,		26
43	2012 ,		2
42	Joint Optimal Threshold-Based Relaying and ML Detection in Network-Coded Two-Way Relay Channels. <i>IEEE Transactions on Communications</i> , 2012 , 60, 2657-2667	6.9	16
41	Relay selection for cooperative underwater acoustic communication systems 2012 ,		6
40	Enhancing wireless networks performance through cooperative communications with interference management 2012 ,		3
39	Performance analysis of selective cooperation with fixed gain relays in Nakagami-m channels. <i>Physical Communication</i> , 2012 , 5, 272-279	2.2	12
38	2012 ,		1
37	Outage analysis of selective cooperation in underlay cognitive networks with fixed gain relays and primary interference modeling 2012 ,		2
36	Iterative Compressive Estimation and Decoding for Network-Channel-Coded Two-Way Relay Sparse ISI Channels. <i>IEEE Communications Letters</i> , 2012 , 16, 1992-1995	3.8	6
35	2012 ,		19
34	Outage Performance of OFDM Ad-Hoc Routing with and without Subcarrier Grouping in Multihop Network 2012 ,		10
33	Best relay selection using SNR and interference quotient for underlay cognitive networks 2012 ,		17
32	Area Spectral Efficiency of Cooperative Network with Opportunistic Relaying 2012 ,		3
31	Optimized Selective OFDMA in multihop network 2012 ,		9

30	Partial Relay Selection in Underlay Cognitive Networks with Fixed Gain Relays 2012 ,		24
29	Joint Hierarchical Modulation and Network Coding for Two Way Relay Networks 2012 ,		2
28	On Relay Assignment in Network-Coded Cooperative Systems. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 868-876	9.6	20
27	Threshold-Based Relaying in Coded Cooperative Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 123-135	6.8	30
26	Joint Statistics of Partial Sums of Ordered Exponential Variates and Performance of GSC RAKE Receivers over Rayleigh Fading Channel. <i>IEEE Transactions on Communications</i> , 2011 , 59, 2241-2253	6.9	8
25	Area spectral efficiency of infrastructure-relay enhanced single-cell wireless systems 2011 ,		1
24	Performance analysis of selective cooperation in underlay cognitive networks over Rayleigh channels 2011 ,		25
23	Sequential Random Selection Relaying for Energy Efficient Wireless Sensor Networks 2010 ,		2
22	Performance analysis of best relay selection scheme for fixed gain cooperative networks in non-identical Nakagami-m channels 2010 ,		2
21	Cognitive Relaying in Wireless Sensor Networks: Performance Analysis and Optimization 2010 ,		12
20	Estimation of highly selective channels for downlink LTE system by a robust neural network 2010 ,		1
19	Relay assignment schemes for multiple source-destination cooperative networks 2010 ,		5
18	Mitigating Error Propagation in Two-Way Relay Channels with Network Coding. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 3380-3390	9.6	35
17	Reed-Solomon coding for cooperative wireless communication 2010 ,		1
16	Performance analysis of best relay selection scheme for amplify-and-forward cooperative networks in identical Nakagami-m channels 2010 ,		3
15	Wireless transmission using cooperation on demand. <i>Physical Communication</i> , 2010 , 3, 190-197	2.2	4
14	Controlling Error Propagation in Network-Coded Cooperative Wireless Systems 2009 ,		4
13	Development of a remote lab for electrical engineering program 2009 ,		3

12	Comparison of Relaying Strategies for Cooperative Diversity Systems with Adaptive Modulation 2009,		6
11	Distributed turbo coding using log-likelihood thresholding for cooperative communications 2008,		2
10	Wireless transmission with cooperation on demand for slow and fast fading environments 2008,		4
9	Research in undergraduate education at Qatar University: EE department experience. <i>Proceedings - Frontiers in Education Conference, FIE, 2007,</i>		1
8	Average outage duration of multihop communication systems with regenerative relays. <i>IEEE Transactions on Wireless Communications, 2005, 4, 1366-1371</i>	9.6	36
7	Harmonic mean and end-to-end performance of transmission systems with relays. <i>IEEE Transactions on Communications, 2004, 52, 130-135</i>	6.9	316
6	Optimal power allocation for relayed transmissions over Rayleigh-fading channels. <i>IEEE Transactions on Wireless Communications, 2004, 3, 1999-2004</i>	9.6	347
5	A performance study of dual-hop transmissions with fixed gain relays. <i>IEEE Transactions on Wireless Communications, 2004, 3, 1963-1968</i>	9.6	516
4	End-to-end performance of transmission systems with relays over Rayleigh-fading channels. <i>IEEE Transactions on Wireless Communications, 2003, 2, 1126-1131</i>	9.6	872
3	Outage probability of multihop transmission over Nakagami fading channels. <i>IEEE Communications Letters, 2003, 7, 216-218</i>	3.8	373
2	Performance analysis of cellular mobile systems with successive co-channel interference cancellation. <i>IEEE Transactions on Wireless Communications, 2003, 2, 29-40</i>	9.6	51
1	Average BER of multihop communication systems over fading channels		20